105.1 - Clinical Laboratory Materials (gas, liquid, and solid forms)

The following SRMs are for calibrating apparatus and validating analytical methods used in clinical and pathology laboratories. Additional information on the serum materials is given in table 105.2.

For further information see: SP 260-36, SP 260-72 and SP 260-83

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	900a	909c	911c	912a	913b	914a	915b	916a	917c	918c	919b	920	921	924a	927e	928	929a	937	955c	956d
Description	Antiepilepsy Drugs in Frozen Human Serum	Frozen Human Serum	Cholesterol	Urea	Uric Acid	Creatinine	Calcium Carbonate	Bilirubin	D-Glucose (Dextrose)	Potassium Chloride General and Ion Activity Standard (Dried at 110 °C)	Sodium Chloride	D-Mannitol	Cortisol (Hydrocortisone)	Lithium Carbonate	Bovine Serum Albumin (7% solution) (Total Protein Standard)	Lead Nitrate	Magnesium Gluconate	Iron Metal	Toxic Metals in Caprine Blood	Electrolytes in Frozen Human Serum
Unit Size	(4 vials)	(3 x 2 mL)	(2 g)	(25 g)	(10 g)	(10 g)	(20 g)	(100 mg)	(50 g)	(30 g)	(30 g)	(50 g)	(1 g)	(30 g)	(10 x 2.2mL)	(30 g)	(5 g)	(50 g)	(4 vials)	(6 x 2.0 mL)
Purity/Constituent (mass fraction in %)	2 levels: phenobarbital, phenytoin, lamotrigine, topiramate	Cholesterol, Elements, Creatinine, Total Gylcerides, Urea, Uric Acid, *Protein*	99.2	99.9	99.8	99.7	W_{CaCO_3} 99.907 W_{Ca} 40.0104 W_{CO_3} 59.923	98.3	99.7	W_{KCl} 99.945 W_{K} 52.421 W_{Cl} 47.5317	W_{NaCl} 99.835 W_{Cl^-} 60.564 W_{Na^+} 39.2747	99.8	98.9	99.867*	BSA Conc. 67.38 g/L	100.00	Mg Conc. 5.362	99.90	4 Levels: Pb, As, Cd, Hg 1 Level: ethyl-, methyl-, and inorganic Hg species	3 Levels: Ca, Cl, Li, Mg, K, Na 3 Levels: *ionized calcium, Phosphate, and Phosphorus*

* Conforms to National Committee for Clinical Laboratory Standards (NCCLS) specification ACC-1.

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SRM	965b	967a	968e	971	972a	998	1400	1486	1595	1598a	1950	1951c	1952a	2366a
Description	Glucose in Frozen Human Serum	Creatinine in Frozen Human Serum	Fat-Soluble Vitamins, Carotenoids, and Cholesterol in Human Serum	Hormones in Frozen Human Serum	Vitamin D Metabolites in Frozen Human Serum	Angiotensin I (Human)	Bone Ash	Bone Meal	Tripalmitin	Inorganic Constituents in Animal Serum	Metabolites in Frozen Human Plasma	Lipids in Frozen Human Serum	Cholesterol in Freeze-Dried Human Serum	Cytomegalovirus DNA (Towne BAC) for DNA Measurements
Unit Size	(set (8) (2 each conc))	(set(4) (2 each conc))	(set (3) (1 each conc.))	(2 x 5 mL)	(4 x 1 mL)	(0.5 mg)	(50 g)	(50 g)	(2 g)	(2 vials)	(5 x 1 mL)	(4 vials (2 each conc))	(set (6) (2 each conc))	(1 vial)
Purity/Constituent (mass fraction in %)	4 Levels: glucose	2 Levels: creatinine	3 Levels: vitamins, carotenoids, and cholesterol	cortisol, testosterone, progesterone, total thyroxine (T4), total 3,3',5-triiodothyronine (T3)	4 Levels: 25-hydroxyvitamin D_2, 25-hydroxyvitamin D_3, 3-epi-25-hydroxyvitamin D_3	94.1	8 elements	8 elements	99.5	12 elements *5 elements*	Cholesterol, Creatinine, Urea,Uric Acid,Homocysteine, Glucose,Total Gylcerides, 3 Hormones,8 Fatty Acids, 12 Amino Acids,9 Vitamins, 4 Elements,2 carotenoids, *Bilirubin,Selenium Species,Total protein, 6 PFCs,19 Fatty Acids, 4 Amino Acids, 4 Vitamins, 3 Elements,2 carotenoids,*	2 Levels: Total Cholesterol, Total Glycerides	3 Levels: cholesterol	1 Level: cytomegalovirus (copies per micro liter)

A147

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2378 Fatty Acids in Frozen Human Serum (3 vials, 1 level each)	2389a Amino Acids in 0.1 mol/L Hydrochloric Acid (5 x 1.2 mL)	2668 Toxic Elements in Frozen Human Urine (Set (10) (5 each conc))	2669 Arsenic Species in Frozen Human Urine (Set (10) (5 each conc.))	2670a Toxic Elements in Freeze-Dried Urine (set (4) (2 each conc))	2921 Human Cardiac Troponin Complex (5 x 115 uL)
3 Levels, Fatty acids	17 Amino Acids	2 Levels: 14 Elements *2 Levels: 9 Elements*	2 levels: Arsenic species *2 levels: Total Arsenic*	2 Levels: 14 Elements *10 Elements*	Cardiac Troponin cTnI, *cTnT, cTnC*

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SRM	2972a	2973	3667	3668	3669	3671	3672	3673	3950	8321	8323	8327	8642a	8671
Description	25-Hydroxyvitamin D Calibration Solutions	Vitamin D Metabolites in Frozen Human Serum (High Level)	Creatinine in Frozen Human Urine	Mercury, Perchlorate, and Iodide in Frozen Human Urine	Arsenic Species in Frozen Human Urine (Elevated Levels)	Nicotine Metabolites in Human Urine (Frozen)	Organic Contaminants in Smokers' Urine (Frozen)	Organic Contaminants in Non-Smokers' Urine (Frozen)	Vitamin B_6 in Frozen Human Serum	Peptide Mixture of Proteomics	Yeast Protein Extract	Peptide Reference Material for Molecular Mass and Purity Measurements	FDA Saxitoxin Dihydrochloride Solution	NISTmAb, Humanized IgG1κ Monoclonal Antibody
Unit Size	(20 x 1.2 mL)	(one vial)	(1 x 10 mL)	(Set (10) (5 each conc))	(5 x 1.5mL)	(3 x 10 mL)	(5 x 10 mL)	(5 x 10 mL)	(2 vials, 1 level each)	(3 vials)	(3 x 0.2 mL)	(set 3 (1 mg each))	(5 ampoules x 1.2 mL)	(800 microliters)
Purity/Constituent (mass fraction in %)	1 Level: 25-hydroxyvitamin D_2 2 Levels: 25-hydroxyvitamin D_3 1 Level: 3-Epi-25 hydroxyvitamin D_3	25-hydroxyvitamin D_3 *25-hydroxyvitamin D_2* *3-epi-25-hydroxvitamin D_3* *24R, 25-dihydroxyvitamin D_3*	61.8 mg/dL	2 Levels: Hg, Nitrate, Perchlorate *2 Levels: I, Thiocyanate*	Arsenic Species	2 Levels: Nicotine, Cotinine 1 Level: 3-hydroxycotinine *Other Nicotine Metabolites*	Hydroxylated PAHs Phthalate Metabolites Phenol Metabolites VOC Metabolites	Hydroxylated PAHs Phthalate Metabolites Phenol Metabolites VOC Metabolites	2 Levels: Vitamin B_6	*440 Synthetic Peptides*	*0.191 mg/mL*	*Molecular Mass, Purity of Peptides, Amino Acid Sequence*, for 3 synthetic peptides	*0.0103*	*Mass Concentration (1 level) and Physiochemical Values*

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